

**AMENDMENTS TO THE SPECIFICATION:**

Please insert the following at page 33, line 21:

**REPRESENTATIVE HISTONE SEQUENCES**

Human H3 histone (SEQ ID NO:11)

ARTKQTARKSTGGKAPRKQLATKAARKSAPATGGVKKPHRYRPGTVALREIRRYQKST  
ELLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT  
MPKDIQLARRIRGERA

Human H4 histone (SEQ ID NO:12)

SGRGKGGKGLGKGGAKRHRKVLRDDIQQGITKPAIRRLARRGGVKRISGLIYEETRGVLK  
V FLENVIRDAVTYTEHAKRKTVTAMDVVYALKRQGRTLYGFGG

Human H2A histone (SEQ ID NO:13)

SGRGKQGGKARAKAKTRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYLAALYELTA  
EILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKLLGKVTAQGGVLPNIQAVLLPKKTESHHKA  
KGK

Human H2B histone (SEQ ID NO:14)

PEPSKSAPAPKKGSKKAITKAQKKDGKKRKRKRSRKESESYIYVYKVLKQVHPDTGISSKAM  
GIMNSFVNDFERIAGEASRLAHYNKRSTITSREIQTAVRLLLPGELAKHAVSEGTKAVTK  
YTSSK

Human H2A.X histone (SEQ ID NO:15)

SGRGKTGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGHYAERVGAGAPVYLAALYEL  
LTA  
EILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKLLGGVTIAQGGVLPNIQAVLLPKKTS  
ATVGPKAPSGGKKATQASQEY

Human H3.3 histone (SEQ ID NO:16)

ARTKQTARKSTGGKAPRKQLATKAARKSAPSTGGVKKPHRYRPGTVALREIRRYQKST  
ELLIRKLPFQRLVREIAQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKRVTI  
MPKDIQLARRIRGERA

Before the Figures, insert the Sequence Listing submitted herewith.